

MATERIAL SAFETY DATA SHEET

KEIM Sealer



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: KEIM Sealer

CHEMICAL FAMILY: Aliphatic polyisocyanate

PRODUCT USE: Sealer

MANUFACTURER:

KEIM Mineral Coatings of America, Inc.
10615 Texland Boulevard, #600
Charlotte, NC 28273
Phone: 1-704-588-4811
Emergency Phone: only in US and Canada
1 800 535 5053 (INFOTRAC)

2. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS: (Also see section 11)

EMERGENCY OVERVIEW:

WARNING!

IRRITANT TO SKIN, EYES AND RESPIRATORY PASSAGES.
INHALATION MAY CAUSE RESPIRATORY SENSITIZATION.
REPEATED CONTACT MAY CAUSE SKIN SENSITIZATION.

ROUTES OF ENTRY: Skin and eye contact and inhalation.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Appearance: Odorless yellowish liquid

CARCINOGENICITY: NTP: No, IARC: No, OSHA: No

This material is considered hazardous by the OSHA Hazard Communication Standard. (29CFR1910.1200)

HMIS: Health: 2* Flammability: 0 Reactivity: 0

NFPA: Health: 2 Flammability: 0 Reactivity: 0

MATERIAL SAFETY DATA SHEET

KEIM Sealer



3. COMPOSITION/ INFORMATION ON INGREDIENTS

Component	CAS#	% by wt.
Hexamethylene-1,6-diisocyanate homopolymer	28182-81-2	50 - 100
Talc	14807-96-6	5 - 10

4. FIRST AID MEASURES:

SKIN: Remove contaminated clothing and shoes Wash with soap or mild detergent and water. Do not use solvents or thinners. If irritation occurs, get medical attention.

EYES: Hold eyes open and flush for at least 15 minutes with large amounts of water. Get immediate medical attention.

INGESTION: Do not induce vomiting. Give two glasses of water to dilute stomach contents. Never give anything by mouth to an unconscious person. Get immediate medical attention.

INHALATION: Remove to fresh air. If breathing is difficult administer oxygen. Get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide, dry chemical. Use water spray to cool containers in fire area. Do not use full water jet.

FIRE FIGHTING: Use self-contained breathing apparatus and full protective clothing. Dispose of fire debris and contaminated firefighting water in accordance with regulations.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: Ensure adequate ventilation. Wear protective clothing. Do not allow product to reach soil, sewage system or any water sources. Avoid contact with skin and eyes. Absorb with non-combustible liquid binding material (sand, diatomaceous earth, acid binders, vermiculite) and place in container for disposal according to local regulations (see Section 13). Clean affected areas thoroughly.

MATERIAL SAFETY DATA SHEET

KEIM Sealer

**7. HANDLING AND STORAGE**

HANDLING: Avoid contact with skin, eyes or clothing. Remove contaminated clothing and wash before re-use.

STORAGE: Store tightly closed containers. Keep in well ventilated area. Keep away from moisture, heat and direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

Component	CAS#	Exposure Limit
Talc	14807-96-6	2 mg/m ³ TWA ACGIH

ENGINEERING CONTROLS: Use local exhaust ventilation.

RESPIRATORY PROTECTION: Use NIOSH approved respirator for exposure to vapor.

SKIN PROTECTION: Use clothing and shoes suitable to avoid skin contact. Use butyl or nitrile rubber gloves. Check suitability recommendations by protective equipment manufacturers.

EYE PROTECTION: Safety goggles with side shields.

General Hygiene: Wash thoroughly after handling. Immediately remove soiled and contaminated clothing. Wash before re-use. Do not eat or drink in area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
PHYSICAL FORM:	Liquid
COLOR:	Yellowish
ODOR:	odorless
FLASH POINT:	~356 °F (180°C)
LOWER EXPLOSION LIMIT:	0.9 vol.%
UPPER EXPLOSION LIMIT:	9.5 vol.%
MELTING POINT:	-75 °F (-59°C)
VAPOR PRESSURE:	0.001 hPa @ 50°C
IGNITION TEMPERATURE:	833 °F (445°C)
SOLUBILITY IN WATER:	Insoluble/reacts

MATERIAL SAFETY DATA SHEET

KEIM Sealer



DENSITY: 1.14 g/cm³
VISCOSITY/DYNAMIC: 150 mPas @ 23°C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Exothermic reaction with amines and alcohols; reacts slowly with water forming CO₂, in closed containers risk of bursting due to increase of pressure.

HAZARDOUS DECOMPOSITION PRODUCTS: No hazardous decomposition products when stored and handled correctly.

POLYMERIZATION: Will not occur. Curing temperatures above 90 °C can result in the release of slight amounts of monomeric hexamethylene diisocyanate. Heat drying at temperatures > 90 °C is therefore not recommended.

INCOMPATIBILITIES: See above.

11. TOXICOLOGICAL INFORMATION

Acute toxicity, oral: LD50 rat: > 5.000 mg/kg

Primary skin irritation: rabbit: slight irritant

Primary mucosae irritation: rabbit: non-irritant

Sensitization:

Skin sensitisation according to Buehler (epicutaneous test): guinea pig

Result: negative

Skin sensitisation according to Magnusson/Kligmann (maximizing test): guinea pig

Result: positive

Mutagenicity: Not mutagenic in AMES Test. Overexposure, especially when spraying coatings containing isocyanate, without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing and asthma) are possible. Hypersensitive persons may suffer from these effects even at low isocyanate concentrations, including concentrations below the Workplace Exposure Limit.

Prolonged contact with the skin may cause tanning and irritant effects.

12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

MATERIAL SAFETY DATA SHEET

KEIM Sealer



Product is not readily biodegradable.

The product reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water soluble solvents.

13. DISPOSAL CONSIDERATIONS

Dispose of or incinerate in accordance with Federal, State or Local regulations.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Not Regulated

IMDG: not regulated

IATA: not regulated

15. REGULATORY INFORMATION

TSCA status: All components of this product are on the TSCA Inventory.

DSL status: All components of this product are on the DSL Inventory.

SARA (section 311/312):

Reactive hazard: no
Pressure hazard: no
Fire hazard: no
Immediate/acute: yes
Delayed/chronic: yes

SARA Title III:

To the best of our knowledge, this product contains no toxic chemicals which are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Canadian WHMIS: D2B

MATERIAL SAFETY DATA SHEET

KEIM Sealer



Note: Entries under this section cover only those regulations typically addressed in the MSDS generating process, such as, TSCA, and EPCRA/SARA Title III.

16. OTHER INFORMATION

HAZCOM LABEL:

WARNING!

IRRITANT TO SKIN, EYES AND RESPIRATORY PASSAGES.

INHALATION MAY CAUSE RESPIRATORY SENSITIZATION.

REPEATED CONTACT MAY CAUSE SKIN SENSITIZATION.

AND CENTRAL NERVOUS SYSTEM EFFECTS.

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This MSDS conforms to the American National Standard, ANSI Z400.1-2004.

To the best of our knowledge, the information contained in this MSDS is accurate.

It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this MSDS relate only to the specific material designated herein. We do not assume any liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

Version 2.2:

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